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What is claimed is:

- 1. A method of inducing an immune response that includes a CD8⁺ cytotoxic T lymphocyte (CTL) response to a molecule in an individual, the method comprising administering to the individual the molecule joined to a heat shock protein or the molecule joined to an adenosinetriphosphate (ATP) binding domain of a heat shock protein or a portion thereof.
 - 2. The method of claim 1, wherein the individual has a deficiency of CD4⁺ T cells.
- 10 3. The method of claim 1, wherein the heat shock protein is fused to the molecule.
 - 4. The method of claim 1, wherein the ATP binding domain is fused to the molecule.
 - 5. The method of claim 1, wherein the hear shock protein is covalently bonded or chemically conjugated to the molecule.
- 6. The method of claim 1, wherein the ATP binding domain, or the portion thereof, is covalently bonded or chemically conjugated to the molecule.
 - 7. The method of claim/1/wherein the molecule is a protein or glycoprotein.
 - 8. The method of claim 1, wherein the molecule is a carbohydrate or lipid.
 - 9. The method of claim 1, wherein the molecule is a bacterial or viral antigen.
 - 10. The method of claim 10, wherein the viral antigen is an antigen of the human immunodeficiency virus.

- 11. The method of claim 1, wherein the molecule is a parasitic antigen.
- 12. The method of claim 1, wherein the molecule is a cancer cell-associated antigen.
- 13. The method of claim 1, wherein the heat shock protein, the ATP binding domain of the heat shock protein, or the portion thereof, is a mycobacterial protein.
- 5 14. The method of claim 13, wherein the mycobacterial protein is an M. leprae, M. bovis, or M. tuberculosis protein.
 - 15. The method of claim 1, wherein the heat shock protein, the ATP binding domain of the heat shock protein, or the portion thereof, is hsp65, hsp70, or hsp90.
- 16. The method of claim 1, wherein the heat shock protein, the ATP binding domain of the heat shock protein, or the portion thereof, is a mammalian protein.
 - 17. The method of claim 16, wherein the mammalian protein is a human protein.
 - 18. The method of claim 1, wherein the portion of the ATP binding domain consists of about half of the ATP binding domain.
- 19. The method of claim 1, wherein the portion of the ATP binding domain is a portion of a naturally occurring ATP binding domain in which 1-50% of the amino acid residues have been substituted; 10-40% of the amino acid residues have been substituted; or 10-20% of the amino acid residues have been substituted.
 - 20. The method of claim 19, wherein at least half of the substituted amino acid residues are conservative amino/acid substitutions.

- 21. The method of claim 1, wherein the portion of the ATP binding domain comprises amino acid residues 161-370 of Mycobacterium tuberqulosis hsp70.
- 22. The method of claim 2, wherein the individual has an acquired immune deficiency syndrome.
- 5 23. A method of inducing a CD4⁺-independent cytotoxic T lymphocyte response to a molecule in an individual, the method comprising administering to the individual a portion of an ATP binding domain of a heat shock protein joined to the molecule.
 - 24. The method of claim 23, wherein the molecule is a protein, a peptide, a glycoprotein, a carbohydrate, a viral antigen, a fungal antigen, or a parasitic antigen.
- 10 25. The method of claim 23, wherein the heat shock protein is an hsp65, hsp70, hsp90, bacterial, mycobacterial, fungal, parasitic, or mammalian heat shock protein.
 - 26. A composition comprising a heat shock protein, or a portion thereof, joined to a heterologous molecule.
- 27. The composition of claim 26, wherein the portion of the heat shock protein is a portion of an ATP binding domain of a heat shock protein.
 - 28. The composition of claim 26, wherein the heat shock protein, or the portion thereof, is fused to the heterologous molecule.
 - 29. The composition of claim 26, wherein the molecule is a protein, peptide, glycoprotein, carbohydrate, viral antigen, fungal antigen, or parasitic antigen.
- 20 30. The composition of claim 26, wherein the heat shock protein is a mycobacterial or mammalian heat shock protein.

- 31. The composition of claim 30, wherein the mycobacterial heat shock protein is derived from *Mycobacterium tuberculosis*, *Mycobacterium leprae*, or *Mycobacterium bovis*.
- 32. The composition of claim 27, wherein the portion of the ATP binding domain consists of about half of the ATP binding domain.
- 33. The composition of claim 26, wherein the portion of the ATP binding domain is a portion of a naturally occurring ATP binding domain in which 1-50% of the amino acid residues have been substituted; 10-40% of the amino acid residues have been substituted.
- 10 34. The composition of claim 33, wherein at least half of the substituted amino acid residues are conservative amino acid substitutions.
 - 35. The composition of claim 26, wherein the portion of the ATP binding domain comprises amino acid residues 161-370 of *Mycobacterium tuberculosis* hsp70.